

Recombinant Human Protein Arginine Methyltransferase 6, Flag-tagged

Cat. No. PRMT6-653H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Protein Arginine Methyltransferase 6 (NP_060607.2) (Met 1-Asp 375) was expressed, fused with a Flag tag at the N-terminus. It is expressed in <i>Human Cells</i> .
Species	Human
Source	Human Cells
ProteinLength	1-375 a.a.
Description	Protein arginine N-methyltransferase 6, also known as Histone-arginine N-methyltransferase PRMT6, PRMT6, and HRMT1L6, is a member of the protein arginine N-methyltransferase family and PRMT6 subfamily. PRMT6 is highly expressed in kidney and testes. PRMT6 is known to catalyze the generation of asymmetric dimethylarginine in polypeptides. It has been implicated in human immunodeficiency virus pathogenesis, DNA repair, and transcriptional regulation. PRMT6 is known to methylate histone H3 Arg-2 (H3R2), and this negatively regulates the lysine methylation of H3K4 resulting in gene repression. PRMT6 plays a key role in coupling process by functioning as a transcriptional coactivator that can regulate alternative splicing.
Purity	>95 % as determined by SDS-PAGE.
Endotoxin	< 1.0 EU per

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	1µg of the protein as determined by the LAL method.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Predicted N Terminal	Met.
Molecular Mass	The recombinant human PRMT6 consists of 394 amino acids and predicts a molecular mass of 44.4 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh PRMT6 is approximately 43 - 46 kDa.
Formulation	Supplied as a 0.2µm filtered solution of PBS, pH 7.5.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted and be used as soon as possible. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	PRMT6 protein arginine methyltransferase 6 [Homo sapiens]
Synonyms	PRMT6; protein arginine methyltransferase 6; HRMT1L6; FLJ10559; FLJ51477; EC 2.1.1.125; protein arginine N-methyltransferase 6; Histone-arginine methyltransferase PRMT6; EC 2.1.1.-; Protein arginine N-methyltransferase 6; HMT1 hnRNP methyltransferase-like 6 (S. cerevisiae); Heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 6
Gene ID	55170
mRNA Refseq	NM_018137
Protein Refseq	NP_060607

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MIM	608274
UniProt ID	Q96LA8
Chromosome Location	1p13.2
Function	histone binding; transferase activity; protein methyltransferase activity; histone methyltransferase activity (H2A-R3 specific); histone methyltransferase activity (H3-R2 specific); histone methyltransferase activity (H4-R3 specific); protein methyltransferase activity; protein-arginine omega-N asymmetric methyltransferase activity

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